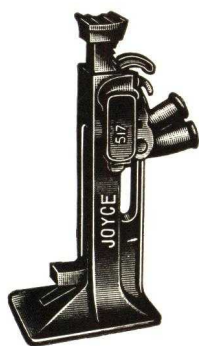


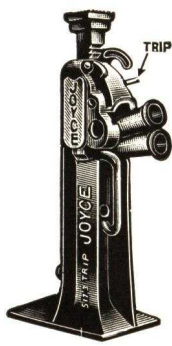
# JOYCE INDUSTRIAL JACKS

## Single acting — automatic lowering type

## Geared ratchet lever type



517



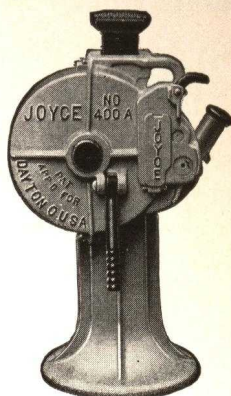
517-T trip



1022



2028



400-A

Joyce automatic lowering industrial jacks are unsurpassed in safety, ruggedness, power and dependability. Designed for and widely used by contractors, mines, oil fields, truckers, bridge builders, railways, utilities, for steam shovels, fleet owners, riggers and industrial plants.

Built with simplified mechanism. Working parts made of heat-treated drop forged steel. No machine screws. Parts cannot work loose or become lost. Working parts enclosed and protected from dirt. Reversing lever con-

veniently placed at top of the jack. The capacity of its foot lift at the bottom of the lifting bar is one-half the rated capacity. A steel lever bar is furnished with every jack.

Joyce geared lever ratchet jacks are recommended for handling railroad cars, oil tanks, for contractors, riggers and heavy equipment service. Light in weight and high in efficiency.

| Jack No. | Capacity tons | Height inches | Rise inches | Weight pounds |
|----------|---------------|---------------|-------------|---------------|
| 517      | 5             | 16 1/2        | 9           | 25            |
| 517-T    | 5             | 16 1/2        | 9           | 25            |
| 1022     | 10            | 22            | 13          | 59            |
| 1522     | 15            | 22            | 13          | 60            |
| 1928-A   | 15            | 28            | 19          | 94            |
| 2028     | 20            | 28            | 19          | 106           |

| No. Jack | Capacity tons | Height inches | Rise inches | Weight pounds |
|----------|---------------|---------------|-------------|---------------|
| 400-A    | 50            | 28            | 15          | 245           |

## SPECIAL AUTOMATIC LOWERING RATCHET JACKS

### Emergency jack No. 78

Single acting, automatic lowering

A combination vertical and tilting jack. Lifts from all angles. Recommended for contractors, public utilities, truckers, riggers and industrial plants. Especially popular for oil field service in handling trucks, drilling equipment and setting machinery. Also standard equipment on oil field bulldozer.

### Cable reel jack No. 1022-CR

Single acting, automatic lowering

Used in pairs for handling cable, belting and wire rope reels.



Emergency



Cable reel

| Jack No. | Capacity tons | Height inches | Rise inches | Weight jack pounds | Weight complete pounds |
|----------|---------------|---------------|-------------|--------------------|------------------------|
| 78-A     | 15            | 22            | 12 1/2      | 60                 | 97                     |

Furnished with a five-foot combination steel chain and claw and five-foot steel lever bar.

| Jack No. | Height to top inches | Height 4th hook | Height 3rd hook | Height 2nd hook | Height 1st hook | Rise inches |
|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-------------|
| 1022-CR  | 40                   | 33              | 24              | 18              | 12              | 12          |
| 1022-CR3 | 24 1/2               | ----            | 24              | 17              | 10              | 12          |



# JOYCE AIR MOTOR DRIVEN JACKS

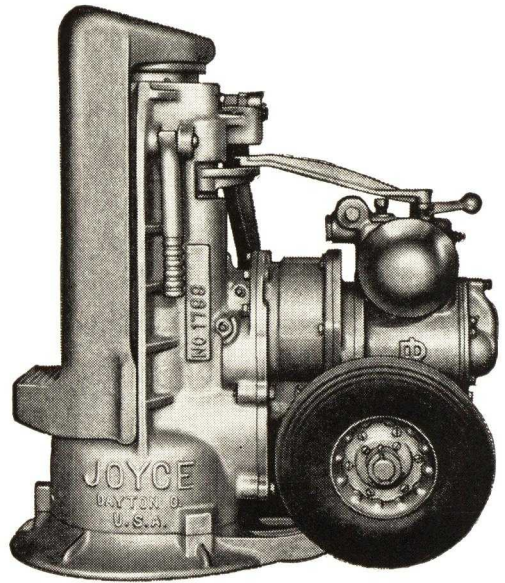
Ball Bearing Geared Screw Type for Industrial, Railroad, and Construction Use . . .  
20, 35, 50, 75, and 100 Ton Capacities . . . With Removable Toe Lift As Optional Feature

## EASY TO MOVE WITH COLLAPSIBLE HANDLE

Compressed air replaces manpower and saves approximately nine-tenths of the time required for jacking a load by hand. Automatic shut-offs assure positive safety. Lowered by reversing motor — not self-lowering. Grease fittings for easy lubrication. Powered with heavy-duty Ingersoll-Rand rotary motor. Equipped with semi-pneumatic tired wheels for fast jack placement. Lifting capacities shown are for 90 lbs. per sq. in. average operating air pressure. Prices on hose and couplings furnished on request.

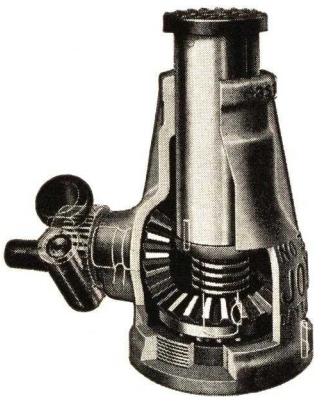
| Model No.  | Capacity<br>tons on<br>toe | Capacity<br>tons on<br>toe | Rise inches,<br>cap and<br>toe | Weight<br>pounds | Height<br>inches |
|------------|----------------------------|----------------------------|--------------------------------|------------------|------------------|
| 1720-R     | 20                         | ---                        | 18                             | 240              | 28               |
| *1720-RGL  | 20                         | 10                         | 18                             | 280              | 28               |
| 1735-R     | 35                         | ---                        | 18                             | 250              | 28               |
| *1735-RGL  | 35                         | 17 1/2                     | 18                             | 295              | 28               |
| 17710-R    | 50                         | ---                        | 16 1/2                         | 425              | 28               |
| *17710-RGL | 50                         | 25                         | 16 1/2                         | 485              | 28               |
| 17712-R    | 50                         | ---                        | 24 1/2                         | 440              | 36               |
| 1799-R     | 75                         | ---                        | 13 3/4                         | 465              | 26               |
| 1799-AR    | 100                        | ---                        | 13 3/4                         | 465              | 26               |
| *1799-ARGL | 100                        | 50                         | 13 3/4                         | 565              | 26               |
| 17915-AR   | 100                        | ---                        | 30                             | 620              | 44               |

\*Removable toe lift model.



# JOYCE BALL BEARING GEARED SCREW JACKS

## Joyce journal jacks



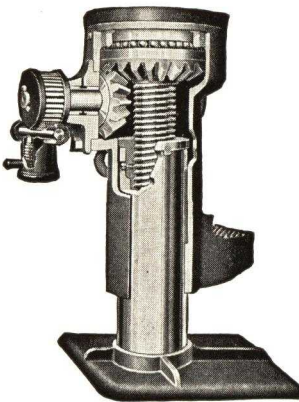
Jacks Nos. 1025 and 1035 are used for general construction and maintenance work, bridge work, and other services where a short powerful lift is required. Jacks Nos. 1025-A, 1035-A and 1050-A are constructed with special heat-treated aluminum alloy frame and base plate. Extremely light and very durable.

All Joyce journal jacks have a positive stop which prevents the operator from driving the ram out beyond the safety limit of the screw.

| Jack No. | Capacity<br>tons | Height<br>inches | Rise<br>inches | Weight<br>pounds |
|----------|------------------|------------------|----------------|------------------|
| 1025     | 25               | 10               | 5              | 36               |
| 1035     | 35               | 10               | 5              | 42               |
| 1025A    | 25               | 10               | 5              | 25               |
| 1035A    | 35               | 10               | 5              | 35               |
| 153-J    | 50               | 10               | 4              | 68               |
| 1050A    | 50               | 10               | 4              | 54               |

## Joyce standard speed

Ball bearing geared screw jacks



Plain ball bearing jacks are used principally for heavy contracting work, bridge building, ship building, etc. They are recommended for outside work as they are not affected by weather conditions or rough handling. The jacks are all of the bridge or foot lift type and are furnished standard with a large area rectangular base. Round bases can be furnished if wanted, but standard rectangular base jacks only are carried in stock.

| Jack No. | Capacity<br>tons | Height<br>inches | Rise<br>inches | Weight<br>pounds |
|----------|------------------|------------------|----------------|------------------|
| 154-A    | 25               | 22               | 12             | 119              |
| 160-A    | 35               | 27               | 17             | 208              |
| 165-A    | 50               | 26               | 16             | 230              |



Jackmaster locomotive screw jacks

5 to 36 tons capacity  
with positive safety stop

The housing is solid (dirt-proof) and perfectly bell shaped. One-piece screw of special steel with bottom thread closed to give a positive safety stop — you can't run it out too far.



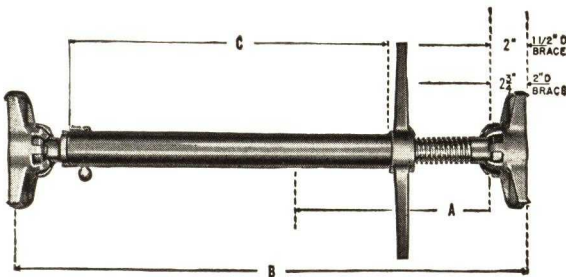
Sizes conform to National Bureau of Standards S.P.R. 97-42. Steel levers sent only when ordered and at small extra charge listed below.

| Screw diam. | Tons cap. | Screw diam. | Tons cap. |
|-------------|-----------|-------------|-----------|
| 1"          | 5         | 1 3/4"      | 16        |
| 1 1/4"      | 10        | 2"          | 20        |
| 1 1/2"      | 12        | 2 1/2"      | 28        |

| Size in.    | Net wt. | Closed ht. in. | Max. rise in. | Size in.   | Net wt. | Closed ht. in. | Max. rise in. |
|-------------|---------|----------------|---------------|------------|---------|----------------|---------------|
| 1 1/4 x 4   | 8       | 6 1/2          | 2 1/4         | *2 x 12    | 30      | 15 1/2         | 9             |
| *1 1/4 x 6  | 10      | 8 1/2          | 4 1/4         | 2 x 14     | 35      | 17 1/2         | 11            |
| 1 1/4 x 8   | 11      | 10 1/2         | 6 1/4         | 2 1/2 x 6  | 27      | 10             | 2 1/4         |
| 1 1/4 x 10  | 13      | 12 1/2         | 8 1/4         | 2 1/2 x 8  | 31      | 12             | 4 1/4         |
| 1 1/2 x 6   | 11      | 8 3/4          | 3 3/4         | 2 1/2 x 10 | 35      | 14             | 6 1/4         |
| *1 1/2 x 8  | 14      | 10 3/4         | 5 3/4         | 2 1/2 x 12 | 40      | 16             | 8 1/4         |
| 1 1/2 x 10  | 17      | 12 3/4         | 7 3/4         | 2 1/2 x 14 | 43      | 18             | 10 1/4        |
| 1 1/2 x 12  | 19      | 14 3/4         | 9 3/4         | 2 1/2 x 16 | 50      | 20             | 12 1/4        |
| 1 3/4 x 8   | 18      | 11             | 5 1/2         | 2 1/2 x 18 | 56      | 22             | 14 1/4        |
| *1 3/4 x 10 | 20      | 13             | 7 1/2         | 3 x 8      | 46      | 13             | 3 1/2         |
| 1 3/4 x 12  | 25      | 15             | 9 1/2         | 3 x 14     | 62      | 19             | 9 1/2         |
| 2 x 6       | 18      | 9 1/2          | 3             | 3 x 18     | 78      | 23             | 13 1/2        |
| 2 x 8       | 22      | 11 1/2         | 5             | 3 x 24     | 103     | 29             | 19 1/2        |
| 2 x 10      | 26      | 13 1/2         | 7             |            |         |                |               |

\*On federal government quotations show these jacks as 5, 8, 12 and 15 tons capacity, respectively. Add levers.

Trench or sewer braces



These braces provide the safest and most economical bracing on all trench jobs. The screws are steel and the wing nut is drop forged steel, which safeguards against bending or breaking.

JOYCE trench braces can be installed quickly. The ball and socket joint at each end permits easy adjustment to any angle. Adapted to any width trench by using longer or shorter lengths of standard black pipe. The following specifications include pipe.

| Pipe and screw diam. | Length of screw inches | Length of brace closed inches | Length of brace open inches | Length of pipe inches | Safe extension of screw inches | Weight per dozen pounds |
|----------------------|------------------------|-------------------------------|-----------------------------|-----------------------|--------------------------------|-------------------------|
| 1 1/2                | 12                     | 18                            | 25                          | 10 1/2                | 7                              | 198                     |
| 1 1/2                | 14                     | 24                            | 33                          | 16 1/2                | 9                              | 224                     |
| 1 1/2                | 16                     | 30                            | 40                          | 22 1/2                | 10                             | 246                     |
| 2                    | 18                     | 36                            | 46                          | 26                    | 10                             | 517                     |
| 2                    | 18                     | 42                            | 52                          | 32                    | 10                             | 538                     |
| 2                    | 18                     | 48                            | 58                          | 38                    | 10                             | 560                     |
| 2                    | 18                     | 54                            | 64                          | 44                    | 10                             | 590                     |
| 2                    | 18                     | 60                            | 70                          | 50                    | 10                             | 604                     |

Steel house raising jacks

25 and 35 tons capacity

| Size | Size       | Size       |
|------|------------|------------|
| 2x12 | 2 1/2 x 12 | 2 1/2 x 18 |
| 2x14 | 2 1/2 x 16 | 2 1/2 x 20 |
| 2x16 |            |            |

Screw diameter 2", tons capacity 25  
Screw diameter 2 1/2", tons capacity 35

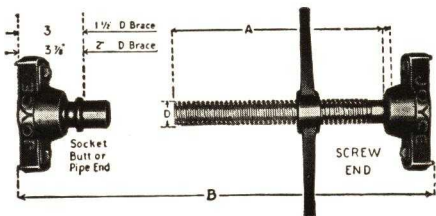


Cast iron jack screws

Cast with seamless threads; insuring smooth, uniform operation. Used by house movers, also for shoring work, and on many other kinds of industrial jobs. They save time and labor on all sorts of ingenious applications.

| Diameter of screw | Height overall | Size of plate | Length of nut |
|-------------------|----------------|---------------|---------------|
| 3"                | 24"            | 6"            | 6"            |
| 3"                | 26"            | 6"            | 6"            |
| 3"                | 28"            | 6"            | 6"            |
| 3"                | 30"            | 6"            | 6"            |
| 3"                | 32"            | 6"            | 6"            |
| 3"                | 34"            | 6"            | 6"            |
| 3"                | 36"            | 6"            | 6"            |

Trench brace fittings



Furnished without pipe. The addition of a piece of standard gas pipe, cut to the required length and drilled with small hole at one end for the insertion of cotter pin, completes the brace, and equals dimension "B".

| "D" diam. of screw inches | "A" length of screw inches | Safe extension of screw inches | Weight per dozen pounds |
|---------------------------|----------------------------|--------------------------------|-------------------------|
| 1 1/2                     | 12                         | 7                              | 175                     |
| 1 1/2                     | 14                         | 9                              | 180                     |
| 1 1/2                     | 16                         | 10                             | 190                     |
| 2                         | 18                         | 10                             | 415                     |

Timber brace fittings

| Diam. of screw inches | "A" length of screw inches | Size of timber caps | Weight per dozen pounds |
|-----------------------|----------------------------|---------------------|-------------------------|
| 1 1/2                 | 14                         | 4 x 4               | 170                     |
| 1 1/2                 | 14                         | 6 x 6               | 185                     |
| 2                     | 18                         | 6 x 6               | 375                     |
| 2                     | 18                         | 8 x 8               | 385                     |



3-WAY NUT—for use in close quarters where the regular wing nut cannot be used, a 3-way unbreakable nut made with three holes to fit a 1 inch rod can be furnished. No extra charge when specified in place of the wing nut.

Joyce pushing and pulling jacks



Push and pull—No. 55



Push and pull—No. 55

Designed for pushing apart or pulling together structural members, sheets and machinery. Used also for straightening sides and ends of steel cars and bent or split steel center sills. Jack No. 52 same as No. 55 except hooks are rigid and always extended.

| Type    | Jack No. | Cap. tons | Diam. screw ins. | Lgth. closed ins. | Run of screw ins. | Wt. lbs. |
|---------|----------|-----------|------------------|-------------------|-------------------|----------|
| Pullers | 52       | 8         | 1 1/2            | 25                | 12                | 38       |
| Push    | 55       | 10        | 1 3/4            | 40                | 19                | 67       |
| and     | 54       | 15        | 2 1/2            | 31                | 25                | 75       |
| Pull    | 59-A     | 10        | 2                | 28                | 20                | 49       |

Single acting trip track jacks

15 tons capacity

For track construction, surfacing and ballasting



No. 1522-T



Operating Mechanism

Single-acting jacks are equipped with barrel-shape actuating springs as shown above. They require less manpower and can be set at any angle. No. 1522-T is most popular size and, when specified, is furnished with special built-up base for sliding under rail. No. 1511-T is a special track lining jack without head cap.

All track jacks furnished with square sockets for use with a lining bar. Round sockets and steel lever furnished at additional cost.

| Jack No. | Capacity tons | Height inches | Rise inches | Weight pounds |
|----------|---------------|---------------|-------------|---------------|
| 1511-T   | 15            | 10 3/4        | 5           | 40            |
| 1522-T   | 15            | 22            | 13          | 58            |
| A-1522-T | 15            | 22            | 13          | 37            |

Bell-base ratchet jack screws



This jack has one piece wrought steel screw, cast iron stand and cap, and steel ratchet pawl and malleable handle.

| Diameter | Height of stand | Height over all | Rise inches |
|----------|-----------------|-----------------|-------------|
| 2        | 10              | 14 1/2          | 7           |
| 2        | 12              | 16 1/2          | 9           |
| 2        | 14              | 18 1/2          | 11          |
| 2 1/2    | 10              | 15 1/2          | 6 1/4       |
| 2 1/2    | 12              | 17 1/2          | 8 1/4       |
| 2 1/2    | 14              | 19 1/2          | 10 1/4      |
| 2 1/2    | 16              | 21 1/2          | 12 1/4      |
| 2 1/2    | 18              | 23 1/2          | 14 1/4      |

Telescopic jack screws



This jack consists of two screws, one working within the other, operating simultaneously, thus the double screw raises the load with double speed and nearly twice the height of the stand; therefore this jack can be used in closer quarters than the ordinary style.

| Jack number | Height of stand | Height over all closed | Rise inches | Total height opening |
|-------------|-----------------|------------------------|-------------|----------------------|
| No. 1       | 7 1/2           | 10 1/2                 | 11          | 21                   |
| No. 2       | 11              | 14                     | 16          | 30                   |